

SCHEDULE FOR SATURDAY, August 11, 2012

3:00 - 6:00 PM School participants arrive at Argonne and register at the Argonne Guest House, Building 460.

6:00 - 8:00 PM - Informal get-together Argonne Guest House. Food and beverages will be provided. All School participants and program presenters are invited to attend.

ARGONNE SCHOOL OPENING - SUNDAY, AUGUST 12, 2012
APS Building 401, Room A1100

Time/Date	Sunday, August 12	Time/Date	Sunday, August 12	Time/Date	Sunday, August 12
8:00 AM	Breakfast Buffet Argonne Guest House Restaurant	9:15 - 10:15	Lecture Interaction of X-rays and Neutrons with Matter S. K. Sinha University of California, San Diego	2:45 - 3:30	Lecture X-ray Detection P. P. Denes Lawrence Berkley National Laboratory
9:00 AM	Opening Remarks Dr. Brian Stephenson Associate Laboratory Director Advanced Photon Source Argonne National Laboratory Dr. Suzanne G.E. te Velthuis Physicist Materials Science Division Argonne National Laboratory Dr. Jonathan C. Lang Physicist X-ray Science Division Advanced Photon Source Argonne National Laboratory	10:15 - 10:30	Break	3:30 - 3:45	Break
		10:15 - 11:15	Lecture Continued Interaction of X-rays and Neutrons with Matter S. K. Sinha University of California San Diego	3:45 - 4:30	Lecture Continued X-ray Detection P. P. Denes Lawrence Berkeley National Laboratory
		11:15 - 11:30	Break	4:30 - 4:45	Break
		11:30 - 12:30	Lecture X-ray Generation/Instrumentation D. M. Mills Argonne National Laboratory	4:45 - 6:00	Advanced Photon Source (APS) Tour
		12:30 - 1:30	Lunch	6:00 - 7:00	Dinner
		1:30 - 2:30	Lecture Continued X-ray Generation/Instrumentation D. M. Mills Argonne National Laboratory		

National School on Neutron and X-ray Scattering
August 12-25, 2012

Argonne National Laboratory
Argonne, Illinois

Program Week 1 - August 13-18, 2012
APS Building 401 Room A1100

Time/Date	Monday August 13	Tuesday August 14	Wednesday August 15	Thursday August 16	Friday August 17	Saturday August 18
8:30 - 9:30	Lecture Continued Interaction of X-rays and Neutrons with Matter S. K. Sinha University of California, San Diego	Lecture Surface Scattering P. Miceli University of Missouri	Lecture X-ray Abs. Spectroscopy G. B. Bunker Illinois Institute of Technology	Lecture X-ray Imaging I. McNulty Argonne National Laboratory	Lecture High Pressure Techniques M. Guthrie Carnegie Institute - Washington	Bus Travel to Oak Ridge Bus departs Argonne Guest House - 9:00 AM
9:30 - 9:45	Break	Break	Break	Break	Break	
9:45 - 10:45	Lecture Continued Interaction of X-rays and Neutrons with Matter S. K. Sinha University of California, San Diego	Lecture Continued Surface Scattering P. Miceli University of Missouri	Lecture Continued X-ray Absorption Spectroscopy G. B. Bunker Illinois Institute of Technology	Lecture Continued X-ray Imaging C. I. McNulty Argonne National Laboratory	Lecture Time Resolved Scattering P. Evans Univ. of Wisconsin	
10:45 - 11:00	Break	Break	Break	Break	Break	
11:00 - 12:00	Lecture Single Crystal Diffraction A. Schultz Argonne National Lab	Lecture Powder Diffraction B. Toby Argonne National Lab	Lecture Magnetic Spectroscopy E. Arenholz Lawrence Berkley National Lab	Lecture XPCS L. Lurio Northern Illinois University	Lecture X-ray Emission Spectroscopy G. Siedler Univ. of Washington	
12:00 - 1:15	Lunch	Group Photo/Lunch	Lunch	Lunch	Lunch	
1:30 - 6:00	Lecture Small Angle Scattering D. Schaffer Univ. of Cincinnati 1:30 -2:30 pm Break 2:30 - 2:45	Free Afternoon in Chicago (Optional) Buses depart Argonne Guest House for down- town Chicago - 1:30 PM	X-ray Experiment 2 1:30 – 6:00 See Experiments Schedule	X-ray Experiment 3 1:30 – 6:00 See Experiments Schedule	X-ray Experiment 4 1:30 – 6:00 See Experiments Schedule	
6:00 - 7:00	X-ray Experiment 1 2:45 – 6:30 See Experiments Schedule	Buses depart downtown Chicago for Argonne Guest House - 8:00 PM	Dinner	Dinner	Dinner Week 1 wrap-up Picnic	Dinner at Oak Ridge

SCHEDULE FOR SATURDAY, August 18, 2012

School participants arrive in Oak Ridge, TN and check in at the Comfort Inn.

Transportation provided from airport and dinner hosted by Oak Ridge National Laboratory.

OAK RIDGE SCHOOL OPENING - SUNDAY, August 19, 2012

Spallation Neutron Source (SNS) Building 8600, Iran Thomas Auditorium, Room A103

Time/Date	Sunday, August 19	Time/Date	Sunday, August 19
9:30 - 11:30	-Badging -Safety Training (PFE)	1:00 - 1:45	Lecture Neutron Generation and Detection J. M. Carpenter Argonne National Laboratory
11:30 - 12:00	Lunch	1:45 - 2:00	Break
12:00 - 1:00	Welcomes Dr. Kelly Beierschmitt Associate Laboratory Director Neutron Directorate Oak Ridge National Laboratory Dr. Thom Mason Director Oak Ridge National Laboratory	2:00 - 2:45	Lecture Neutron optics and Instrumentation L. Roberston Oak Ridge National Laboratory
		2:45 - 3:00	Break
	Opening Remarks Dr. Bryan C. Chakoumakos Group Leader Structure of Matter Quantum Condensed Matter Div. Oak Ridge National Laboratory	3:00 - 6:30	Tours SNS, HFIR, and Graphite Reactor
		6:30 - 8:00	Dinner and Discussion

National School on Neutron and X-ray Scattering
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Oak Ridge National Laboratory
Oak Ridge, Tennessee

Program Week 2 - August 20-25, 2012
Spallation Neutron Source (SNS) Building 8600, Iran Thomas Auditorium, Room A103

Time/Date	Monday August 20	Tuesday August 21	Wednesday August 22	Thursday August 23	Friday August 24	Saturday August 25
8:30 - 9:30	Lecture Quasi-elastic Neutron Scattering K. W. Herwig Oak Ridge National Laboratory	Lecture Magnetic Scattering B. D. Gaulin McMaster University	Lecture PDF Analysis T. Proffen Oak Ridge National Laboratory	Lecture Materials Engineering D. Brown Los Alamos National Laboratory	Lecture Writing Proposals for Neutron & X-ray Beamtime J. D. Budai Oak Ridge National Laboratory	School participants depart for home
9:30 - 9:45	Break	Break	Break	Break	Break	
9:45 - 10:45	Lecture Inelastic Neutron Scattering B. D. Gaulin McMaster University	Lecture Reflectivity C. F. Majkrzak National Institute of Standards and Technology	Lecture Diffuse Scattering G. E. Ice Oak Ridge National Laboratory	Lecture Applications of Small Angle Scattering V. S. Urban Oak Ridge National Laboratory	Lecture Powder Diffraction Applications A. Huq Oak Ridge National Laboratory	
10:45 - 11:00	Break	Break	Break	Break	Break	
11:00 - 12:00	Lecture Continued Inelastic Neutron Scattering B. D. Gaulin McMaster University	Lecture Neutron Polarization C. F. Majkrzak National Institute of Standards and Technology	Lecture Micro-Diffraction G. E. Ice Oak Ridge National Laboratory	Lecture Imaging with Neutrons H. Bilheux Oak Ridge National Laboratory	Presentation preparation	
12:00 - 12:45	Lunch	Lunch	Lunch	Lunch	Lunch	
12:45 - 6:30	HFIR/SNS Experiment 1 (16 Instruments)	HFIR/SNS Experiment 2 (16 Instruments)	HFIR/SNS Experiment 3 (16 Instruments)	HFIR/SNS Experiment 4 (16 Instruments)	Student Presentations Break Student Presentations	
6:30 - 8:00	Dinner and Discussion	Dinner and Discussion	Dinner and Discussion	Dinner and Discussion	Dinner in the SNS Cafeteria & Social on the Patio	